

CLAIMS:

1. Device (1) comprising an antennae for receiving radio frequency signals, which antennae (2-5) comprises:
 - a first conductor (2) for receiving the radio frequency signals and for converting the radio frequency signals into electromagnetic fields; and
 - 5 - a second conductor (3) for receiving at least a part of the electromagnetic fields and for converting the received electromagnetic fields into input signals, which second conductor (3) is different from the first conductor (2) and is coupled to a radio frequency circuit (10) for processing the input signals.
- 10 2. Device (1) according to claim 1, wherein the radio frequency circuit (10) comprises an antenna diversity unit (20) comprising a first input (11) coupled to the second conductor (3) and a second input (12) coupled to a third conductor (4,5) of the antennae (2-5), which third conductor (4,5) is different from the first (2) and second (3) conductors.
- 15 3. Device (1) according to claim 2, wherein the third conductor (4) is mainly arranged for receiving at least a part of the electromagnetic fields.
4. Device (1) according to claim 2, wherein the third conductor (5) is mainly arranged for receiving the radio frequency signals.
- 20 5. Device (1) according to claim 2, wherein the antenna diversity circuit comprises:
 - a first attenuator (13) coupled to the first input (11);
 - a second attenuator (14) coupled to the second input (12); and
 - 25 - a combiner (17) comprising inputs coupled to outputs of the first and second attenuators (13,14).
6. Device (1) according to claim 1, wherein the radio frequency circuit (10) is mounted on the first conductor (2).

7. Device (1) according to claim 1, wherein the first conductor (2) is in the form of a plane having a first surface and the second conductor (3) is in the form of a wire having a second surface smaller than the first surface.
- 5 8. Device (1) according to claim 7, wherein the perimeter of the first conductor (2) has a value between 15% of the wavelength of the radio frequency signals and 200% of the wavelength of the radio frequency signals.
- 10 9. Device (1) according to claim 7, wherein the first conductor (2) is substantially a square.
10. Device (1) according to claim 7, wherein the second conductor (3) is substantially located in parallel to a side of the first conductor (2), which first (2) and second
15 (3) conductor are separated from each other by an air gap having a gap distance smaller than the length of the side of the first conductor (2).
11. Antenne (2-5) for receiving radio frequency signals and comprising:
- a first conductor (2) for receiving the radio frequency signals and for
20 converting the radio frequency signals into electromagnetic fields; and
- a second conductor (3) for receiving at least a part of the electromagnetic fields and for converting the received electromagnetic fields into input signals, which second conductor (3) is coupled to a radio frequency circuit (10) for processing the input signals.
- 25 12. Method for receiving radio frequency signals and comprising the steps of:
- at a location, receiving the radio frequency signals and converting the radio frequency signals into electromagnetic fields;
- at a different location, receiving at least a part of the electromagnetic fields
30 and converting the received electromagnetic fields into input signals; and
- processing the input signals.